

R2E250-RA50-01 ebmpapst 230VAC 250mm Centrifugal Fan Datasheet



Brand: ebmpapst

SKU: [1009163097575](#)

Category: Axial & Centrifugal Fans

Price: **\$205.99**

E-mail: sales@equipspares.com

Web: <https://www.equipspares.com>

Product Page:

<https://www.equipspares.com/product/r2e250-ra50-01-ebmpapst-230vac-250mm-centrifugal-fan>

Product Description

The ebmpapst R2E250-RA50-01 is a high-efficiency backward curved centrifugal fan designed for rigorous industrial thermal management applications. Engineered with the robust M2E068-EC external rotor motor, this motorized impeller optimizes aerodynamic performance while maintaining structural rigidity under continuous operation. The unit features a 250mm diameter impeller that delivers superior airflow dynamics, significantly reducing thermal impedance in high-density electronic enclosures. Utilizing precision ball bearings and a permanent split capacitor configuration, the R2E250-RA50-01 ensures reliable longevity and stable rotational speeds across both 50Hz and 60Hz frequencies, making it an ideal solution for critical cooling requirements where space and efficiency are paramount.

Model Number: R2E250-RA50-01

Brand: ebmpapst

Product Type: Backward Curved Motorized Impeller

Motor Type: AC External Rotor Motor (M2E068-EC)

Rated Voltage: 230 VAC

Frequency: 50 / 60 Hz

Rated Current: 0.93 / 1.25 A

Power Input: 210 / 285 W

Power Output: 125 / 120 W

Rated Speed: 2500 / 2450 RPM

Max. Air Flow: 824 CFM (1400 m³/h)

Max. Static Pressure: 2.41 inH₂O (600 Pa)

Impeller Diameter: 250 mm

Bearing Type: Ball Bearing

Capacitor: 5 µF / 400 VDB

Insulation Class: Class F

Ingress Protection: IP44

Impeller Material: PA Plastic (Polyamide, Glass-fiber reinforced)

Housing Material: Die-cast Aluminum Rotor

Mounting Orientation: Any

Operating Temperature: -25°C to +65°C

Weight: 2.5 kg

Termination: Lead Wires

Motor Protection: Thermal Overload Protector (TOP) wired internally

Compliance: CE, UL, CSA

This centrifugal fan is engineered for integration into high-density industrial environments requiring consistent air movement and static pressure generation. Common deployments include cabinet cooling, variable frequency drive (VFD) ventilation, and precision air conditioning units within manufacturing facilities. The R2E250-RA50-01 excels in heat exchange systems where back pressure is a significant factor, ensuring sensitive components remain within safe operating temperatures. Additionally, the R2E250-RA50-01 is frequently utilized in cleanroom filtration modules and server rack cooling solutions due to its compact external rotor design and exceptional reliability.

Supplemental Images

